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DIELECTRIC PROPERTIES

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Scattering of Slow Cesium Ions by the Surface of a Tungsten Single Crystal. (E) V. I. Veksler. 10, 2109 (1969) [10, 2680 (1968)]
Effect of Nonequilibrium Current Carriers on the Formation of Boundaries between Phases in the Ferroelectric Semiconductor SbSI. (E/T) I. I. Groshik and V. M. Fridkin. 10, 2276 (1969) [10, 2878 (1968)]
Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. (E/T) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 10, 2411 (1969) [10, 3060 (1968)]
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Theory of Shallow Surface States. (T) A. A. Karpushin. 10, 2793 (1969) [10, 3515 (1968)]
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Effect of Atomic Hydrogen Evolved from a Silicon Surface on Latent Image Formation in a Photographic Emulsion. (E) Ya. V. D'yachenko, V. I. Dobryakova, N. F. Zitta, V. V. Mitrofanov, Yu. V. Fedorovich, V. A. Fogel', and S. A. Smirnov. 10, 2988 (1969) [10, 3749 (1968)]

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The Relation between the Anomalous Behavior of the Heat Capacity and the Linear Thermal Expansion Coefficient at the Curie Point and Critical Fluctuations. (T) É. L. Nagaev. 10, 5 (1968) [10, 9 (1968)]
Polymorphism of Bismuth Telluride at High Pressures and Temperatures. (E) É. Ya. Atabaeva, E. S. Itskevich, S. A. Mashkov, S. V. Popova, and L. F. Vereshchagin. 10, 43 (1968) [10, 62 (1968)]
Electron Diffraction Study of a Thermally Treated Corundum Surface. (E) S. A. Semiletov, Kh. S. Bagdasarov, V. S. Papkov, and Z. A. Magomedov. 10, 51 (1968) [10, 71 (1968)]
Investigation of the Thermal Dissociation of Alkaline-Earth Metal Oxides in High Vacuum. (E) G. Ya. Pikus, V. F. Shnyukov, and B. P. Nikonov. 10, 83 (1968) [10, 125 (1968)]
Thermoelectric Power and Electrical Conductivity of Titanium and Zirconium Monocarbides in the Temperature Range 20–2000°C. (E) O. A. Golikova, É. O. Dzhafarov, A. I. Avgustinik, and G. M. Klimashin. 10, 124 (1968) [10, 168 (1968)]
Thermoluminescence of Artificial Diamonds. (E) A. V. Nikitin, G. N. Bezrukov, V. S. Varagin, V. P. Butusov, and G. V. Khatelishvili. 10, 182 (1968) [10, 243 (1968)]
Thermal Conductivity of Solid Methane. (E) V. G. Manzhelii and I. N. Krupskii. 10, 221 (1968) [10, 284 (1968)]
Thermal Radiation from Transparent Dielectrics during Their Fracture under the Action of Laser Light. (E) V. M. Likhachev, V. M. Salmanov, and I. D. Yaroshetskii. 10, 227 (1968) [10, 290 (1968)]
Thermal Conductivity of Plastically Deformed LiF Crystals. (E) I. A. Smirnov and B. I. Smirnov. 10, 244 (1968) [10, 307 (1968)]
Temperature-Induced Changes in the 575 cm^{-1} Band at the Phase Transition of Ferroelectric Crystals of the Triglycine-Sulfate Group. (E) E. K. Galanov and L. D. Kislovskii. 10, 345 (1968) [10, 439 (1968)]
Electron Paramagnetic Resonance and Thermoluminescence of Irradiated Single Crystals of the Aluminosilicates $NaAlSi_2O_6$ and $LiAlSiO_4$. (E) V. A. Ioffe and I. S. Yanchevskaya. 10, 370 (1968) [10, 472 (1968)]
Thermionic Emission of Tungsten in a Flux of Barium and Cesium Atoms. (E) V. T. Bazanov, N. G. Ban'kovskii, and O. M. Mult'anovskaya. 10, 397 (1968) [10, 507 (1968)]
Experimental Determination of the Thermal Vibration Spectrum of White Tin. (E) B. A. Kotov, N. M. Okuneva, and É. L. Plachenova. 10, 402 (1968) [10, 513 (1968)]

Temperature Dependence of Electrotransport of Ions in Pure Nickel. (E) D. F. Kalinovich, I. I. Kovenskii, and M. D. Smolin. 10, 447 (1968) [10, 569 (1968)]

Instability of a Temperature Gradient in a Highly Conductive Crystal of Low Symmetry. (T) L. É. Gurevich and E. F. Shender. 10, 491 (1968) [10, 625 (1968)]

Influence of Temperature on the Elastic Constants of a Te Single Crystal. (E) Kh. M. Khalilov, Sh. O. Orudzheva, and K. I. Rzaev. 10, 507 (1968) [10, 643 (1968)]

Electron-Microscope Investigation of CdS Single Crystals Subjected to Heat Treatment. (E) V. S. Babinchuk and V. V. Serdyuk. 10, 509 (1968) [10, 645 (1968)]

Temperature Dependence of Elastic Constants of Calcium Fluoride. (E) S. P. Nikanorov, B. K. Kardashev, and N. S. Kas'kovich. 10, 703 (1968) [10, 898 (1968)]

Influence of Strong Doping on Thermal Properties of $TbTe_{1.4}$-$Se_{0.4}$. (E) V. A. Saakyan and V. V. Tikhonov. 10, 724 (1968) [10, 920 (1968)]

Temperature Dependence of the Fundamental Absorption Edge in Triglycine Sulfate. (E) L. M. Guseva and A. S. Sonin. 10, 730 (1968) [10, 925 (1968)]

A Phase Method for Measuring Temperature of Some Anisotropic Crystals. (E) G. V. Krivoshchekov, S. I. Marennikov, and Yu. N. Polivanov. 10, 756 (1968) [10, 953 (1968)]

Thermal Radiation from Silicon Illuminated by a Laser Beam. (E) S. M. Ryvkin, V. M. Salmanov, and I. D. Yaroshetskii. 10, 807 (1968) [10, 1022 (1968)]

The Distribution Function and the Temperature Dependence of the Mobility in $A^{III}B^{V}$ Semiconductors. (T/E) N. N. Grigor'ev, I. M. Dykman, and P. M. Tomchuk. 10, 837 (1968) [10, 1058 (1968)]

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Evaporation Kinetics of GaAs. (E) S. A. Aitkhozhin, S. A. Semiletov, and V. V. Lader. 10, 1005 (1968) [10, 1259 (1968)]

Temperature Dependence of the Cubic Splitting of the EPR Spectrum of Gd^{3+} Ions in CaF_2-Type Crystals. (E) T. Rewa). 10, 1014 (1968) [10, 1272 (1968)]

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Investigation of Precipitates Formed in Silicon during Heat Treatment. (E) I. L. Shul'pina, A. I. Zaslavskii, and T. T. Dedegkaev. 10, 1070 (1968) [10, 1347 (1968)]

Thermal Conductivity of Complex Magnetic Structures Containing Dislocations. (T) V. V. Tarasenko. 10, 1176 (1968) [10, 1486 (1968)]

Grüneisen Coefficient of an Almost-Degenerate Electron Gas. (T) V. S. Rogov. 10, 1188 (1968) [10, 1502 (1968)]

Influence of Temperature on the Optical Spectra of Centers in Fluorite-Type Single Crystals Activated with Co^{2+} and Ni^{2+} Ions. (E) A. L. Stolov and Zh. S. Yakovleva. 10, 1196 (1968) [10, 1513 (1968)]

Temperature Dependence of Forbidden-Band Width in $PbTe_xSe_{1-x}$ Solid Solutions. (E) E. D. Devyatkova and V. A. Saakyan. 10, 1239 (1968) [10, 1563 (1968)]

Anomalies of Elastic Properties and Internal Friction of a CoO Single Crystal. (E) K. S. Aleksandrov, L. A. Shabanova, and L. M. Reshchikova. 10, 1316 (1968) [10, 1666 (1968)]

Thermal Destruction of F Centers and Dielectric Losses in NaCl and KCl Crystals. (E) Sh. I. Ismailov, Yu. N. Evstifeev, and Yu. L. Lukantsever. 10, 1322 (1968) [10, 1674 (1968)]

Temperature Dependence of the First Magnetocrystalline Anisotropy Constant of Two-Sublattice Ferrimagnets. (E) B. E. Rubinshtein. 10, 1353 (1968) [10, 1715 (1968)]

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Temperature Dependence of the Anisotropy Energy in a Ferromagnet. (T) S. A. Pikin. 10, 1368 (1968) [10, 1735 (1968)]

Electrical Domain Formation in CdSe Single Crystals by Joule Heating. (E) G. S. Pado, V. I. Pustovoit, and E. F. Tokarev. 10, 1374 (1968) [10, 1743 (1968)]

Effect of the Complex Valence Band of Sb_2Te_3 on Thermal and Electrical Properties. (E) I. A. Smirnov, A. A. Andreev, and V. A. Kutasov. 10, 1403 (1968) [10, 1782 (1968)]

Thermal Stability of Uranium Fission Fragment Tracks in Muscovite Single Crystals (Effect of Anisotropy). (E/T) Ya. E. Geguzin, I. V. Vorob'eva, and I. G. Berzina. 10, 1431 (1968) [10, 1819 (1968)]

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Theory of the High-Temperature Background of Internal Friction. (T/E) B. M. Darinskii, S. K. Turkov, and Yu. A. Fedorov. 10, 1469 (1968) [10, 1869 (1968)]

Temperature Dependence of Internal Friction in Alkali-Halide Single Crystals. (E) A. A. Blistanov, Ya. M. Soifer, and M. P. Shaskol'skaya. 10, 1549 (1969) [10, 1968 (1968)]

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Description of Intercrystallite Thermoelastic Internal Friction Using the Von Karman Correlation Function. (T) T. D. Shermergor and V. G. Baryshnikov. 10, 1709 (1969) [10, 2183 (1968)]

The P–T Diagram of the Ferroelectric Crystal NH_4HSO_4. (E) I. N. Polandov, V. P. Mylov, and B. A. Strukov. 10, 1754 (1969) [10, 2232 (1968)]

The Thermal Conductivity of Indium Telluride. (E) V. I. Fedorov and V. I. Machuev. 10, 1786 (1969) [10, 2263 (1968)]

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Emergence of Dislocations in HgTe Crystals during Annealing in Mercury Vapors. (E/T) G. V. Indenbaum, É. É. Polisar, and A. V. Vanyukov. 10, 1982 (1969) [10, 2524 (1969)]

Conductivity of Boron as a Function of Frequency and Temperature. (T/E) B. K. Avdeenko, O. A. Golikova, M. Zh. Zhubanov, A. Yu. Kiskachi, and V. N. Matveev. 10, 2007 (1969) [10, 2546 (1968)]

The Lorenz Number in HgSe at High Temperatures. (E) I. A. Smirnov and S. A. Aliev. 10, 2080 (1969) [10, 2643 (1968)]

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Thermal Conductivity and Thermo-emf of AlSb and GaP at Low Temperatures. (E) V. M. Muzhdaba, A. Ya. Nashel'skii, P. V. Tamarin, and S. S. Shalyt. 10, 2265 (1969) [10, 2866 (1968)]

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Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. (E/T) T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov. 10, 2411 (1968) [10, 3060 (1968)]

Thermal Diffusion of Vacancies in Crystals. (T/E) B. S. Bokshtein, A. A. Zhukhovitskii, and Yu. S. Nechaev. 10, 2417 (1969) [10, 3068 (1968)]

Thermal Expansion of Substances Having a Defect Structure of the $A_2^{III}B_3^{VI}$ Type and the Antifluorite Structure. (E) S. I. Novikova. 10, 2481 (1969) [10, 3141 (1968)]

Specific Heat of Single-Crystal RbH_2PO_4. (E) M. Amin and B. A. Strukov. 10, 2498 (1969) [10, 3158 (1968)]
Thermal Expansion of Crystalline Krypton near the Triple Point. (E) V. G. Gavrilko, V. G. Manzhelii, V. I. Kuchnev, and A. M. Tolkachev. 10, 2524 (1969) [10, 3182 (1968)]
Change in Dislocation Structure in Slip Bands of LiF Crystals upon Annealing. (E) I. N. Zimkin and B. I. Smirnov. 10, 2534 (1969) [10, 3192 (1968)]
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Isotope Effects on the Lattice Thermal Conductivity and Thermal emf of Tellurium. (E) V. S. Oskotskii, A. M. Pogarskii, I. N. Timchenko, and S. S. Shalyt. 10, 2569 (1969) [10, 3247 (1968)]
Temperature Dependence of the High-Frequency Band Width of Crystal and Local Vibrations. (E/T) A. A. Klochikhin, T. I. Maksimova, and A. I. Stekhanov. 10, 2617 (1969) [10, 3312 (1968)]
Decreased Lattice Thermal Conductivity of Ge, Si, and Their Solid Solutions. (E) A. V. Ioffe. 10, 2713 (1969) [10, 3430 (1968)]
Thermal Expansion of Tellurium. (E) S. I. Novikova. 10, 2723 (1969) [10, 3439 (1968)]
Estimating the Dimensions of the Känzig Regions from Data Relating to the Anomalous Part of the Specific Heat of Ferroelectric Phase Transformations. (E) B. N. Rolov. 10, 2725 (1969) [10, 3441 (1968)]
Computation of the Characteristic Temperature of Naphthalene by Use of Atom–Atom Potentials. (T) A. I. Kitaigorodskii and É. I. Mukhtarov. 10, 2757 (1969) [10, 3474 (1968)]
Nonlinear Thermal Conductivity of Dielectrics in the Region of Viscous Flow of a Phonon Gas. (T) Kh. Nil'sen and B. I. Shklovskii. 10, 2857 (1969) [10, 3602 (1968)]
Temperature Dependence of the Cubic Splitting in the EPR Spectrum of Fe^{3+} in $SrTiO_3$ Single Crystals. (E) T. Reval. 10, 2984 (1969) [10, 3744 (1968)]

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Coefficient of Thermo-emf of Lanthanum Antimonide for Temperatures of 80–500°K. (E) E. V. Goncharova and I. A. Smirnov. 10, 266 (1968) [10, 329 (1968)]
Lattice and Electronic Thermal Conductivity of PbTe, PbSe, and PbS. (E) S. S. Shalyt, V. M. Muzhdaba, and A. D. Galetskaya. 10, 1018 (1968) [10, 1277 (1968)]
Thermoelectronic Parameters of the Faces of a Nickel Single Crystal. (E) A. Kashetov and N. A. Gorbatyi. 10, 1673 (1969) [10, 2135 (1968)]
The Lorenz Number in HgSe at High Temperatures. (E) I. A. Smirnov and S. A. Aliev. 10, 2080 (1969) [10, 2643 (1968)]
Thermal Conductivity and Thermo-emf of AlSb and GaP at Low Temperatures. (E) V. M. Muzhdaba, A. Ya. Nashel'skii, P. V. Tamarin, and S. S. Shalyt. 10, 2265 (1969) [10, 2866 (1968)]
Dependence of the Density-of-States Effective Mass on the Current-Carrier Concentration and Temperature in the n-Type Solid Solution 0.85 PbTe + 0.15 PbS. (E) S. Kasimov and A. R. Regel'. 10, 2513 (1969) [10, 3171 (1968)]
Isotope Effects on the Lattice Thermal Conductivity and Thermal emf of Tellurium. (E) V. S. Iskotskii, A. M. Pogarskii, I. N. Timchenko, and S. S. Shalyt. 10, 2569 (1969) [10, 3247 (1968)]

ERRATA

Vol.	No.	Page	Position	Reads	Should read
9	12	2910	Eq. 4	$\frac{\left(\frac{E}{E_g}-1\right)\frac{I_g}{I_0}}{e^{\beta x l}-1}+1=\frac{L}{x_1}$	$\frac{\left(\frac{E}{E_g}-1\right)\frac{I_g}{I_0}}{e^{\beta x l}-1}=1-\frac{x_1}{L}$
10	5	1213	Addendum	The instability considered in this work is analogous to the ionization instability of a gas-discharge plasma into crossed electrical and magnetic fields. [E. P. Velikov and A. M. Dykhne. Report of the VI International Symposium on Ionization Phenomena in Gases, Paris (1963)]	
10	6	1325	Addendum	In a recently published paper by G. M. Shmelev [Fiz. Tverd. Tela, 9, 488 (1967); Sov. Phys. – Solid State, 9, 371 (1968)], a theory of acoustic dispersion of polarons based on Feynman's method was developed which is suitable for any coupling constant α. The applicability of Eq. 2, used by us, is restricted by the requirement $\gamma = (4kT/\hbar\nu)[(M/\mu)-1] \ll 1$, where ν is the parameter of the theory of [14], equal in our case to $\approx 4\omega$. Conversely, for $\gamma \gg 1$, the formula of [7] is obtained, giving $u \sim \sqrt{T}$. In the case of NaCl $\gamma \approx T/373$; therefore, for $T < 200°$ Eq. 2 remains sufficiently precise. At higher temperatures mobility begins to limit optical dispersion.	

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